

INTERNATIONAL SEARCH REPORT

International application No.

PCT/FI 2004/000457

A. CLASSIFICATION OF SUBJECT MATTER

IPC7: B66C 13/06

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC7: B66C

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

SE,DK,FI,NO classes as above

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

EPO-INTERNAL, WPI DATA

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	WO 9218416 A1 (HYTÖNEN KIMMO), 29 October 1992 (29.10.1992), abstract --	1-3
A	US 5806695 A (KIMMO HYTONEN), 15 Sept 1998 (15.09.1998), abstract --	1-3
A	US 6102221 A (CHRIS XAVIER HABISOHN), 15 August 2000 (15.08.2000), abstract --	1-3
A	US 6050429 A (HRIS X HABISOHN), 18 April 2000 (18.04.2000), abstract --	1-3

Further documents are listed in the continuation of Box C.

See patent family annex.

* Special categories of cited documents:

- "A" document defining the general state of the art which is not considered to be of particular relevance
- "E" earlier application or patent but published on or after the international filing date
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- "O" document referring to an oral disclosure, use, exhibition or other means
- "P" document published prior to the international filing date but later than the priority date claimed

"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

"X" document of particular relevance: the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

"Y" document of particular relevance: the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art

"&" document member of the same patent family

Date of the actual completion of the international search
22 October 2004

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29-10-2004

Name and mailing address of the ISA/
Swedish Patent Office
Box 5055, S-102 42 STOCKHOLM
Facsimile No. + 46 8 666 02 86

Authorized officer
Lars Jakobsson/MN
Telephone No. + 46 8 782 25 00

INTERNATIONAL SEARCH REPORTInternational application No.
PCT/FI 2004/000457**C (Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT**

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	US 3921818 A (TOSHIO YAMAGISHI), 25 November 1975 (25.11.1975), abstract -- -----	1-3

INTERNATIONAL SEARCH REPORT

Information on patent family members

03/09/2004

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WO	9218416	A1	29/10/1992	AT	140206	T	15/07/1996
				AU	655981	B	19/01/1995
				AU	1571792	A	17/11/1992
				BR	9205874	A	05/07/1994
				CA	2107997	A,C	12/10/1992
				DE	69212152	D,T	13/02/1997
				DK	583268	T	28/10/1996
				EP	0583268	A,B	23/02/1994
				SE	0583268	T3	
				ES	2091462	T	01/11/1996
				FI	89155	B,C	14/05/1993
				FI	911757	A	12/10/1992
				GR	3021272	T	31/01/1997
				JP	3132757	B	05/02/2001
				JP	6506655	T	28/07/1994
				KR	193025	B	15/06/1999
				NO	307777	B	29/05/2000
				NO	933631	A	10/12/1993
				RU	2093451	C	20/10/1997
				US	5529193	A	25/06/1996
-----	-----	-----	-----	-----	-----	-----	-----
US	5806695	A	15/09/1998	AU	5467094	A	08/06/1994
				DE	4395770	T	19/10/1995
				FI	91517	B,C	31/03/1994
				FI	925212	D	00/00/0000
				WO	9411293	A	26/05/1994
-----	-----	-----	-----	-----	-----	-----	-----
US	6102221	A	15/08/2000	US	5960969	A	05/10/1999
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US	6050429	A	18/04/2000	NONE			
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US	3921818	A	25/11/1975	AR	211224	A	15/11/1977
				AU	6735574	A	02/10/1975
				BR	7402613	D	00/00/0000
				GB	1462428	A	26/01/1977
				JP	981635	C	27/12/1979
				JP	49124761	A	29/11/1974
				JP	49137278	U	26/11/1974
				JP	54014389	B	06/06/1979
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